

Chapter 1

INTRODUCTION

The MS-6334 Micro-ATX S5 mainboard is a high-performance computer mainboard based on Intel® 815 chipset. The MS-6334 is optimized to support the Intel® Pentium® III (FC-PGA) processor for high-end business/personal desktop markets.

The Intel® 815 chipset integrates a Display Cache SDRAM controller that supports a 32-bit 133MHz SDRAM array for enhanced integrated 3D graphics performance. It is a highly-flexible chipset which is designed to extend the basic graphics/multimedia PC platform up to the mainstream performance desktop platform.

The Intel® 815 chipset implements the host address, control, and data bus interfaces within a single device. It takes advantage of the pipelined addressing capability of the processor to improve the overall system performance. In addition, the chipset also integrates a system memory controller that supports a 64-bit 100/133 MHz SDRAM array.

The Intel® 82801AA (ICH) chipset is a highly integrated multifunctional I/O Controller Hub that provides the interface to the PCI Bus and integrates many of the functions needed in today's PC platforms. It communicates with the host controller over a dedicated hub interface and provides added flexibility in designing cost-effective system solutions.

1.1 Mainboard Features

CPU

- Support Socket 370 for Intel® Celeron™/Pentium III(FC-PGA) processor
- Support 500MHz, 550MHz, 600MHz, 633MHz, 667MHz and up to 9XX

Chipset

- Intel® 815 chipset. (544 BGA)
 - AGP 4x/2x/1x universal slot
 - Support 66/100/133MHz FSB
- Intel® ICH chipset.
 - AC'97 Controller Integrated
 - 2 full IDE channels, up to ATA66
 - Low pin count interface for Winbond SIO

Main Memory

- Supports up to 3 double sided DIMMs at 100 MHZ system memory bus.
- Supports up to 2 double sided or 3 single sided DIMMs at 133MHz system memory bus.
- Support 32 to 512MB using 16/64/128/256Mbit technology.

Slots

- One CNR(Communication Network Riser).
- One AGP(Accelerated Graphics Port) 4x/2x/1x slot.
- Three PCI 2.2 32-bit Master PCI Bus slots.
- Support 3.3v/5v PCI bus Interface.

On-Board IDE

- An IDE controller on the ICH chipset provides IDE HDD/CD-ROM with PIO, Bus Master and Ultra DMA66 operation modes.
- Can connect up to four IDE devices.

On-Board Peripherals

- On-Board Peripherals include:

- 1 floppy port supports 2 FDD with 360K, 720K, 1.2M, 1.44M and 2.88Mbytes.
- 2 serial port (COMA + COMB--header)
- 1 parallel port supports SPP/EPP/ECP mode
- 4 USB ports (Rear * 2/Front * 2)
- 1 VGA port
- 1 Line-In/Line-Out/Mic-In/Game Port

Video

- GMCH chip integrated
- 2D/3D Graphics
- Intel® D.V.M Technology
- Flexible AGP In-Line Memory Module(AIMM) (optional)
- One AGP slot for external AGP card

Audio

- ICH chip integrated
- Sigmatel 9721
 - AC97 2.1 Compliant.
 - Support 2 Channel Audio
- Creative® CT5880. (Optional)
 - PCI 2.2 compliant
 - PC98/99 specification compliant
 - 3D audio effects.
 - 32-voice XG wavetable synthesizer
 - Direct Sound Hardware Accelerator
 - Direct Music Hardware Accelerator
 - Full-Duplex stereo
 - Support SPDIF connector

BIOS

- The mainboard BIOS provides “Plug & Play” BIOS which detects the peripheral devices and expansion cards of the board automatically.
- The mainboard provides a Desktop Management Interface(DMI) function which records your mainboard specifications.

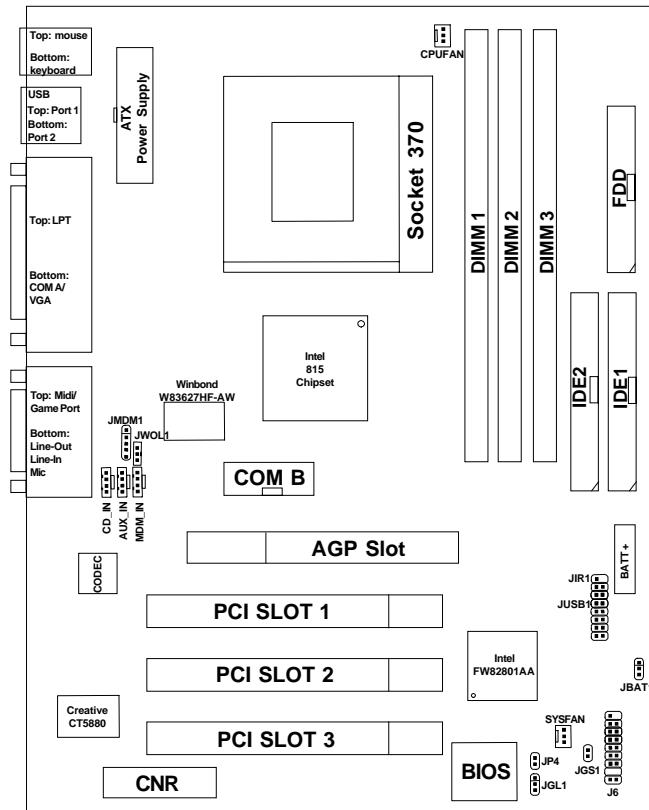
Dimension

- Micro-ATX Form Factor

Mounting

- 6 mounting holes.

1.2 Mainboard Layout



MS-6334 Micro-ATX S5 Mainboard